

For Research Use Only

SMAD3 Monoclonal antibody

Catalog Number: 66516-1-Ig **108 Publications**



Basic Information

Catalog Number: 66516-1-Ig	GenBank Accession Number: NM_005902	Purification Method: Protein G purification
Size: 150ul , Concentration: 2000 ug/ml by Nanodrop;	GeneID (NCBI): 4088	CloneNo.: 1F10B2
Source: Mouse	UNIPROT ID: P84022	Recommended Dilutions: WB 1:2000-1:12000 IHC 1:500-1:2000
Isotype: IgG1	Full Name: SMAD family member 3	
	Calculated MW: 48 kDa	
	Observed MW: 55-60 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Cited Applications: WB, IHC, IF, IP, CoIP, ChIP	WB : HT-1080 cells, NIH/3T3 cells, A431 cells, HEK-293 cells, Jurkat cells, K-562 cells, 4T1 cells
Species Specificity: human, mouse	IHC : human stomach cancer tissue, mouse lung tissue
Cited Species: human, mouse	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

SMAD3, also named as hMAD 3 or Mad3, is a 425 amino acid protein, which contains one MH1 domain and one MH2 domain. SMAD3 localizes in the nucleus and cytoplasm. SMAD3 plays an essential role in development and maintenance of self-tolerance and is a critical mediator of the TGF β signaling pathway. SMAD3 is involved in TGF β dependent regulation of steroidogenesis and in T-cell response to TGF β .

Notable Publications

Author	Pubmed ID	Journal	Application
Shaling Li	36169092	Cancer Sci	WB
Bingyu Xie	36179941	Mol Cell Endocrinol	WB
Wen Zhao	34490599	Histol Histopathol	WB,IHC

Storage

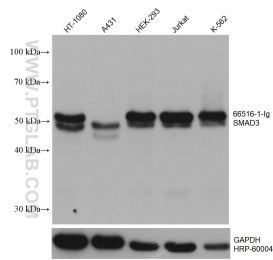
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

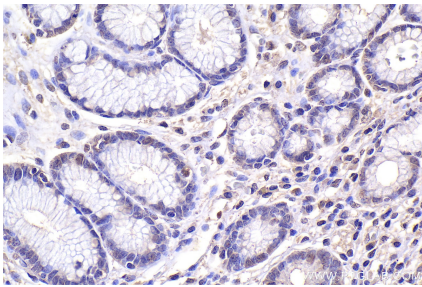
For technical support and original validation data for this product please contact:
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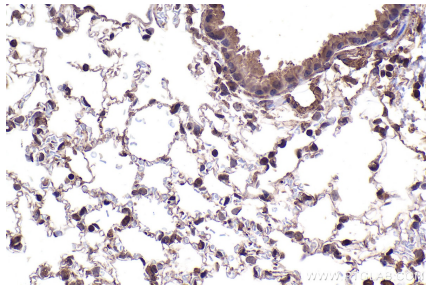
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 66516-1-Ig (SMAD3 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 66516-1-Ig (SMAD3 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 66516-1-Ig (SMAD3 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).